

## PATENT COOPERATION TREATY

## PCT

296 PC

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|   |  |   |
|---|--|---|
| Applicant's or agent's file reference<br><br>MLC / FM / 2676 PC | <b>FOR FURTHER ACTION</b><br>see Form PCT/ISA/220<br>as well as, where applicable, item 5 below. |   |
| International application No.<br><br>PCT / GB2004 / 003101      | International filing date (day/month/year)<br><br>19 / 07 / 2004                                 | (Earliest) Priority Date (day/month/year)<br><br>19 / 07 / 2003 |
| Applicant<br><br>SMITH & NEPHEW PLC                             |  |   |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 05 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box II).

3.  **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/GB2004/003101

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08L67/04 A61L17/12 A61L27/18 A61L27/58 A61L27/54  
A61L31/06 A61L31/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08L A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.                         |
|----------|--|---|
| X        | <p>US 4 968 317 A (TOERMAELAE PERTTI ET AL)<br/>6 November 1990 (1990-11-06)</p> <p>column 5, line 1 - line 12<br/>column 6, line 53 - line 63<br/>column 7, line 31 - line 37<br/>column 8, line 63 - line 65<br/>example 3<br/>table 1</p> <p>-----</p> <p>US 6 315 788 B1 (ROBY MARK S)<br/>13 November 2001 (2001-11-13)</p> <p>column 4, line 7 - line 21<br/>column 8, line 37 - column 9, line 7</p> <p>figure 5</p> <p>-----</p> <p>-/--</p> | <p>1-6,<br/>9-12,17,<br/>24,25,<br/>28-30</p> |
| X        |  | <p>1-6,<br/>13-18,<br/>20-22,<br/>28-30</p>   |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## ° Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

3 November 2004

Date of mailing of the international search report

17/11/2004

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/003101

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.     |
|----------|---|---------------------------|
| X        | US 4 700 704 A (JAMIOLKOWSKI DENNIS D ET AL) 20 October 1987 (1987-10-20)<br>column 2, line 23 - line 42<br>example XIII<br>table 3<br>-----  | 1,2,9,<br>13-17,<br>28,29 |
| X        | US 4 559 945 A (SHALABY SHALABY W ET AL) 24 December 1985 (1985-12-24)<br>column 7, line 20 - column 8, line 22<br>examples 3-5<br>table 1<br>-----   | 1,2,9,<br>13-17           |
| A        | EP 0 805 175 A (KUREHA CHEMICAL IND CO LTD) 5 November 1997 (1997-11-05)<br>page 7, line 20 - line 27; example 3<br>tables 1,2<br>-----   | 1-8,<br>13-17             |
| A        | EP 0 806 283 A (KUREHA CHEMICAL IND CO LTD) 12 November 1997 (1997-11-12)<br>page 7, line 6 - line 20; examples 2,4;<br>tables 1,2<br>-----   | 1-8,<br>13-17             |
| A        | OKUZAKI H ET AL: "MECHANICAL PROPERTIES AND STRUCTURE OF THE ZONE-DRAWN POLY(L-LACTIC ACID) FIBERS" JOURNAL OF POLYMER SCIENCE, POLYMER PHYSICS EDITION, JOHN WILEY AND SONS. NEW YORK, US, vol. 37, no. 10, 1999, pages 991-996, XP001147427 ISSN: 0887-6266 abstract<br>----- | 13-16                     |

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/GB2004/003101

| Patent document cited in search report |    | Publication date |  | Patent family member(s)  |  | Publication date   |
|--|----|------------------|--|--|--|--|
| US 4968317                             | A  | 06-11-1990       |  | FI 870111 A<br>AT 103189 T<br>AU 602750 B2<br>AU 1084288 A<br>BR 8707631 A<br>CA 1311689 C<br>CN 88100127 A ,B<br>DE 3789445 D1<br>EP 0299004 A1<br>ES 2006795 A6<br>WO 8805312 A1<br>GR 88100012 A ,B<br>IN 168204 A1<br>JP 3453314 B2<br>JP 11192298 A<br>JP 1501847 T<br>JP 7096024 B<br>KR 9513463 B1<br>MX 167917 B<br>PT 86530 A<br>ZA 8800116 A |  | 14-07-1988<br>15-04-1994<br>25-10-1990<br>10-08-1988<br>31-10-1989<br>22-12-1992<br>14-09-1988<br>28-04-1994<br>18-01-1989<br>16-05-1989<br>28-07-1988<br>16-12-1988<br>16-02-1991<br>06-10-2003<br>21-07-1999<br>29-06-1989<br>18-10-1995<br>08-11-1995<br>22-04-1993<br>30-01-1989<br>30-05-1989 |
| US 6315788                             | B1 | 13-11-2001       |  | US 5626611 A<br>US 6093200 A<br>CA 2140090 A1<br>DE 69527382 D1<br>DE 69527382 T2<br>EP 0668083 A1<br>US 5578046 A   |  | 06-05-1997<br>25-07-2000<br>11-08-1995<br>22-08-2002<br>03-04-2003<br>23-08-1995<br>26-11-1996   |
| US 4700704                             | A  | 20-10-1987       |  | AU 1979583 A<br>CA 1224600 A1<br>DE 3335588 A1<br>GB 2127839 A ,B<br>JP 1679653 C<br>JP 3043906 B<br>JP 59082865 A<br>JP 1967745 C<br>JP 3269013 A<br>JP 6096633 B<br>NZ 205680 A<br>US 4605730 A  |  | 05-04-1984<br>21-07-1987<br>05-04-1984<br>18-04-1984<br>13-07-1992<br>04-07-1991<br>14-05-1984<br>18-09-1995<br>29-11-1991<br>30-11-1994<br>09-05-1986<br>12-08-1986   |
| US 4559945                             | A  | 24-12-1985       |  | BR 8504606 A<br>CA 1232097 A1<br>DE 3586644 D1<br>DE 3586644 T2<br>EP 0176895 A2   |  | 15-07-1986<br>26-01-1988<br>22-10-1992<br>22-04-1993<br>09-04-1986   |
| EP 0805175                             | A  | 05-11-1997       |  | JP 10060136 A<br>DE 69730771 D1<br>EP 0805175 A1<br>KR 233184 B1<br>US 5853639 A   |  | 03-03-1998<br>28-10-2004<br>05-11-1997<br>01-12-1999<br>29-12-1998   |
| EP 0806283                             | A  | 12-11-1997       |  | DE 69725208 D1<br>DE 69725208 T2<br>EP 0806283 A2  |  | 06-11-2003<br>15-07-2004<br>12-11-1997   |

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/GB2004/003101

| Patent document cited in search report | Publication date | Patent family member(s) |            | Publication date |
|--|------------------|-------------------------|------------|------------------|
| EP 0806283                             | A                | JP                      | 10337772 A | 22-12-1998       |